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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,579 12/18/2001		Carl Johan Friddle	LEX-0274-USA	2417	
24231	7590 06/28/2004	•	EXAMINER		
	GENETICS INCORPO	HAYES, ROBERT CLINTON			
8800 TECHNOLOGY FOREST PLACE THE WOODLANDS, TX 77381-1160		-	ART UNIT	PAPER NUMBER	
			1647	-	
		DATE MAILED: 06/28/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)			
Office Action Summary		10/024,57	9	FRIDDLE ET AL.			
		Examiner		Art Unit			
		I	Hayes, Ph.D.	1647			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH THE - Exter - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REIMAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per reto reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mand patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no evereply within the statuod will apply and witte, cause the apple.	ent, however, may a reply be timutory minimum of thirty (30) days Il expire SIX (6) MONTHS fromication to become ABANDONEI	nely filed s will be considered timel the mailing date of this co O (35 U.S.C. § 133).	y. ommunication.		
Status							
1)⊠	Responsive to communication(s) filed on 26	6 April 2004.					
2a)[This action is FINAL . 2b)⊠ T	his action is n	on-final.	*			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)□ 6)⊠ 7)□	 ✓ Claim(s) 2-4 and 8-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 2-4 and 8-10 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers						
10)	The specification is objected to by the Exam The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corn The oath or declaration is objected to by the	accepted or b) he drawing(s) b rection is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	·		
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)		4) Interview Summary				
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ r No(s)/Mail Date <u>4/23/02, 4/1/03</u> .	08)	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:)-152)		

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group II (Claims 2-4, in part) in the reply filed on 4/26/04 is acknowledged.

Inventorship

2. In view of the papers filed 4/26/04, the inventorship in this nonprovisional application has been changed by the deletion of Brenda Gerhardt due to the restriction requirement.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 9-10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. For example, the current recitation of "A host cell" encompasses a human organism. It is noted that "gene therapy" is contemplated, for example, on pages 5 & 17 of the specification. Therefore, it is suggested that amending the claims to "an isolated host cell" should obviate this particular rejection.

4. Claims 2-4 & 8-10 are rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific and/or substantial asserted utility or a well established utility.

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Pages 1-2 of the specification disclose that "[t]he novel human proteins (NHPs) described for the first time herein share structural similarity with mammalian ion channel proteins, as well as a (sic) several proteins that have been designated as human secreted proteins..." [emphasis added]". In contrast, not a single specific and assayable function is disclosed for the polynucleotide of SEQ ID NO: 4 encoding the polypeptide of SEQ ID NO: 5. For example, pages 16 & 21 of the specification disclose that "NHPs... can be used for the diagnosis of disease..., for screening for drugs... effective in the treatment of symptomatic or phenotypic manifestation of perturbing the normal function of a NHP in the body", as well as "for screening for compounds that can be used as pharmaceutical reagents useful in the therapeutic treatment of mental, biological, or medical disorders and diseases". In contrast, not a single specific disease state that putatively can be treated by using these "novel human proteins (NHPs) described for the first time herein" is disclosed; especially as it relates to the encoded polypeptide of SEQ ID NO: 5. Moreover, because many polynucleotides may be useful "as hybridization probes for screening libraries" or for "RFLP analysis", and because many genes are putatively important in "diagnosis, drug screening, clinical trial monitoring, the treatment of diseases and disorders, and cosmetic or nutriceutical (sic) application" if some association with a specific "mental, biological, or medical disorder and disease", etc. was known in the art, no "specific" utility exists, because the specific biological activity for even the specific encoded NHP polypeptide depicted as SEQ ID NO: 5 is not known nor specifically described within the specification, and therefore, one cannot reasonably extrapolate what constitutes a specific utility for the polynucleotide of SEQ ID NO: 4.

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Secondly, because no specific utility is described or known for the human NHP polynucleotide of SEQ ID NO: 4, and because the specification merely and generically states that NHP's may be useful for the "therapeutic treatment of mental, biological, or medical disorders and diseases", or may be useful for "the treatment of symptomatic or phenotypic manifestation of perturbing the normal function of a NHP in the body", etc., which are further unknown and not disclosed at the time of filing Applicants' invention, the instant invention also has no "substantial utility" because further experimentation is necessary at the time of filing the instant invention to attribute and discover a "real world" utility to the polynucleotide of SEQ ID NO: 4.

Applicants are directed toward the Utility Guidelines in MPEP 2107. See especially MPEP 2107.03.

Claim Rejections - 35 U.S.C. § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-4 & 8-10 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and/or substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Robert Hayes whose telephone number is (571) 272-0885. The examiner can normally be reached on Monday through Thursday, and alternate Fridays from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz, can be reached on (571) 272-0887. The fax phone number for this Group is (703) 872-9306.

Robert C. Hayes, Ph.D.

June 24, 2004

Palt-579 1600 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600